

PARADIGM
SOFTWARE

Supports m801, links to Hypercard

Thank you for your interest in *Object Logo* for the Macintosh. We are pleased that you are considering this language for your explorations.

The enclosed fact sheet highlights many of the reasons why *Object Logo* is the best learning and programming environment that you can choose and why it is the most powerful implementation of the Logo language on any computer. Also enclosed is our current price list and shipping information designed in anticipation of your and your organization's needs. In

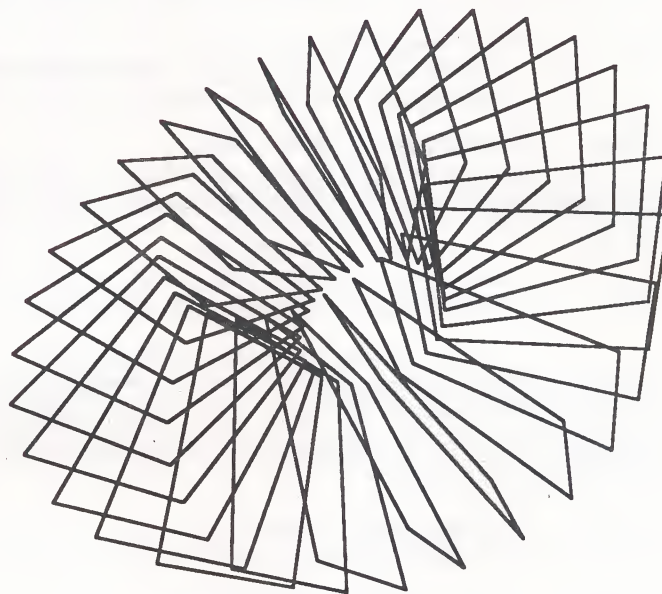
addition to *Object Logo*, we offer a number of fine books for learning Logo and for using it as a means to explore a range of challenging topics.

Please make use of the enclosed order form to enable us to process your request promptly.

We care about how you are using Logo and any questions you may have, so we look forward to hearing from you.

Sincerely,

The Folks at Paradigm Software



ObjectLogo™ Price List January 1991

Product	Description	Price (U.S. \$)	Weight (Lbs.)
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Single-User License

OL-01	Object Logo single-user license. <i>Includes one manual and software on two diskettes.</i>	\$149.00	3
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Lab Packs

These licenses are for the use of Object Logo on up to the designated number of Macintosh® computers in a single room (the "Lab"). A separate license must be purchased for each Macintosh lab.

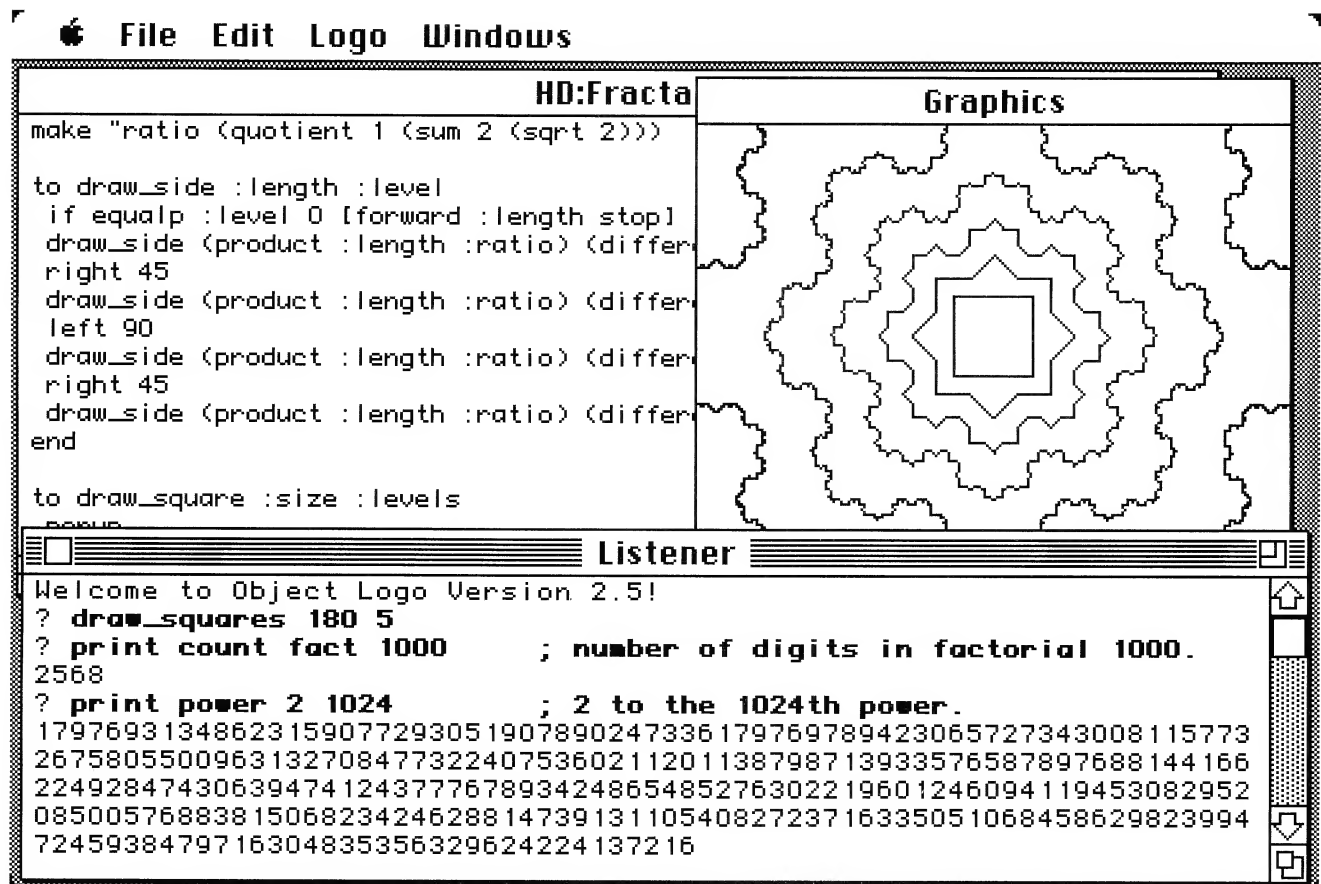
OL-05	Object Logo 5 License Pack. <i>License to run Object Logo on up to 5 Macintosh computers in a single lab setting. Includes two manuals and five sets of software.</i>	\$372.50	7
OL-10	Object Logo 10 License Pack. <i>License to run Object Logo on up to 10 Macintosh computers in a single lab setting. Includes three manuals and ten sets of software.</i>	\$521.50	10
OL-20	Object Logo 20 License Pack. <i>License to run Object Logo on up to 20 Macintosh computers in a single lab setting. Includes four manuals and twenty sets of software.</i>	\$819.50	14

License Expansion Packs

These licenses are for expanding a single-user license to a lab pack. Proof of purchase of a single-user license must be provided.

OL-04E	Object Logo Four License Pack. <i>Includes one manual and four sets of software.</i>	\$260.75	4
OL-09E	Object Logo Nine License Pack. <i>Includes two manuals and nine sets of software.</i>	\$409.75	7
OL-19E	Object Logo Nineteen License Pack. <i>Includes three manuals and nineteen sets of software.</i>	\$707.75	11

ObjectLogo™



Overview

Object Logo is an advanced implementation of the Logo programming language. Logo is based on the philosophy of “no threshold and no ceiling,” and provides a rich and interactive environment for learning mathematics, geometry, and algorithmic thinking. Object Logo extends both the capabilities and performance of traditional Logo. Object Logo is a powerful educational tool and an ideal vehicle for exploring the field of computer science in general and the techniques of object-oriented programming in particular.

Features

Benefits and Uses

Object-oriented programming	Simplifies development and maintenance of large programs and allows for reuse of components in subsequent programs.
Extensive mathematics package	Enables development of mathematically demanding programs.
List processing	Facilitates the exploration of symbolic processing and the techniques of artificial intelligence.
Incremental compiler	Provides the speed of compiled languages while maintaining the interactive advantages of interpreted ones.
Macintosh interface integration	The programming environment is fully integrated with the Macintosh interface, simplifying program writing and editing.

Features

Benefits and Uses

High-level toolbox access	Permits creation of programs that take full advantage of the Macintosh toolbox. Event-driven programs can be developed that incorporate Macintosh windows, menus and dialogs.
Turtle graphics	Permits the exploration of complex geometries via the use of a relative coordinate system.
QuickDraw graphics	Makes the powerful graphic routines of the Macintosh directly accessible.
Apple Logo™ compatibility	Provides an easy way of learning Object Logo using existing Logo books.
Debugging	Provides tools for debugging of complex programs.
Speech and music synthesis	Programs can be enriched with sound and music.
File compiler/application generator	Compiled files can be loaded more quickly. Double-clickable applications can be created and distributed without a licensing fee.

Technical Specifications

Data types:

Words (symbols and numbers), lists, arrays, objects and MacTypes.

Numbers:

Integers, bignums (unbounded integers), real, complex and ratio.

Mathematical functions:

Fractional arithmetic.
Trigonometric and hyperbolic functions.
Logarithmic and exponential functions.

List processing

List extracting and list constructing functions. Advanced list functions equivalent to LISP `rplaca`, `rplacd`, and `cons`.

Control structures:

Imbedded and tail recursion.
Iteration.
Conditional Execution.
Non-local exits from procedures.

Variables

Global, local, public and object.

Procedures

Operations and commands.
Optional and rest inputs.

Object-oriented programming:

Object system based on Object Lisp. Classes and instances can be created using the mechanisms of inheritance and multiple inheritance, with shadowing of object variables and procedures.

Built-in objects

Includes generic windows, text windows, file windows, Listeners, Editors, menus, menu items, input and output streams, and turtles. All are available for immediate specialization and use.

Incremental compiler with dynamic linking

Defined procedures are automatically compiled to 68000 native code.

Maximum number of windows:

Unlimited.

Maximum text window size:

32000 characters.

QuickDraw support:

High-level functions for accessing more than 100 QuickDraw routines in ROM.

Color:

Full support for 32-bit color QuickDraw.

Debugging

Pause, trace and step functions as well as inspection of frames of current procedures.

Speech and music synthesis

Speech via MacinTalk driver.
Music via Macintosh four-voice sound synthesizer or MIDI.

File compiler and stand-alone application generator

File compiler generates fast loading and executing files.
Application generator generates stand-alone programs that can be distributed without a licensing fee.

System Requirements

Minimum hardware required:
Macintosh Plus with 1 megabyte RAM and two 800K disk drives, or one 800K drive and a hard disk (recommended).
System software 6.0.3 or later.

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Paradigm

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Product	Description	Price (U.S. \$)	Weight (Lbs.)
Books			
B-APMD	<i>Approaching Precalculus Mathematics Discretely.</i> Philip G. Lewis. MIT Press, 1989.	\$24.95	3
B-CES	<i>Computer Environments for Children: A Reflection on Theories of Learning and Education.</i> Cynthia Solomon. MIT Press, 1988.	\$10.95	1
	<i>Computer Science Logo Style.</i> Brian Harvey. MIT Press.		
B-CSLSI	Volume I: Intermediate Programming. 1985.	\$21.95	2
B-CSLSII	Volume II: Projects, Styles, and Techniques. 1986.	\$19.95	2
B-CSLSIII	Volume III: Advanced Topics. 1987.	\$19.95	2
B-ELL	<i>Exploring Language with Logo.</i> E. Paul Goldenberg and Wallace Feurzeig. MIT Press, 1987.	\$21.95	2
B-IA	<i>Investigations in Algebra.</i> Albert A. Cuoco. MIT Press, Oct. 1990.	\$29.95	2
B-TG	<i>Turtle Geometry: The Computer as a Medium for Exploring Mathematics.</i> Harold Abelson and Andrea diSessa. MIT Press, 1981.	\$15.95	2
B-VML	<i>Visual Modeling with Logo: A Structured Approach to Seeing.</i> James Clayson. MIT Press, 1988.	\$19.95	2

Quantity Discounts

Multiples of the same product are eligible for a quantity discount according to the following schedule:

2-5: 10% 6-9: 13% 10 and more: 15%

Shipping and Handling

Shipping and handling is based on the total weight of the order and the country of destination:

Weight	domestic U.S.	Canada & Mexico	Overseas
1-3	\$5.00	\$10.00	\$25.00
4-6	\$6.00	\$19.00	\$50.00
7-9	\$8.00	\$27.00	\$74.00
10-12	\$10.00	\$34.50	\$97.00
13-15	\$12.00	\$42.00	\$119.00
Each additional lb.	\$0.75	\$2.50	\$7.00

Products and Prices subject to change without notice.

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ObjectLogo™ Order Form

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Ship To:

Individual or Organization

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Address

Street Address (not post office box)

City

State

Zip

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City

State

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Contact if Organization

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Contact

Phone

Part Number	Quantity	Description	Unit Price	Dollar Amount	Quantity Discount	Extension

Subtotal
Sales Tax (5% for Massachusetts residents only)

Shipping and Handling (consult price list for rates)

Total
Form of Payment:

(Check one box only)

☐ Check drawn on U.S. bank

☐ C.O.D. (U.S. only, add \$3.50 to S&H)

☐ International money order (U.S. dollars)

☐ U.S. school/university P.O. #:

☐ Visa ☐ Mastercard

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